

AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A high strength copper alloy composed of Cu and inevitable impurities as well as titanium (Ti) at 0.1 to 4 weight percent, which is produced by subjecting a material to cold rolling, precipitation treatment, and additional cold rolling sequentially, wherein a reduction rate of the additional cold rolling is set to 3% or more, and a total reduction rate of the cold rolling and the additional cold rolling ranges from 15% to 50%, so that a ratio of yield strength versus tensile strength is set to 0.9 or more.

2. (Currently Amended) A manufacturing method for a high strength copper alloy, comprising the steps of:

performing cold rolling on a copper alloy material composed of Cu and irreversible impurities as well as titanium at 0.4 to 4 weight percent;

performing a precipitation treatment on the copper alloy material to precipitate the titanium; and

performing additional cold rolling on the copper alloy material after the precipitation treatment,

wherein reduction rate of the additional cold rolling is set to 3% or more, and total reduction rate of the cold rolling and the additional cold rolling ranges from 15% to 50%.

3. (Currently Amended) The manufacturing method of a high strength copper alloy according to claim 2, further comprising the step of:

performing stress relaxation annealing after the additional cold rolling, wherein the copper alloy material is heated to a temperature ranging from 200°C to 700°C for a .5 to 1.5 hours ~~prescribed time~~ ranging from 0.5 hour to 15 hours or 300°-900°C for 100-1000 seconds.

4. (Original) The manufacturing method for a high strength copper alloy according to claim 2, further comprising the step of:
performing stress relaxation annealing after the additional cold rolling, wherein the copper alloy material is heated to a temperature ranging from 300°C to 950°C for a prescribed time ranging from 10 seconds to 1000 seconds.

5. (Original) The manufacturing method for a high strength copper alloy according to any one of claims 2 to 4, wherein the copper alloy material includes at least one of Ag, Ni, Fe, Si, Sn, Mg, Zn, Cr, and P at a weight percent ranging from 0.01 to 2 in total, and wherein Ni at a weight percent ranging from 0.01 to 0.04, and Si at a weight percent ranging from 0.01 to 0.1.

6. (Original) A high strength copper alloy according to claim 1, wherein the reduction rate of the additional cold rolling exceeds one third of the reduction rate of the cold rolling.